C9120AXE-B Datasheet

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Overview

The C9120AXE-B is a item from the Cisco Catalyst 9120AX Wireless Access Point series. This device is designed for project networks, offering capable and reliable wireless connectivity.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	**C9120AXE-B**
Description	Cisco Catalyst 9120AXE Series, B Domain
Software	• Cisco Unified Wireless Network Software Release 8.9.x or later • Cisco IOS® XE Software Release 16.11 with AP Device Pack, or later
Supported wireless LAN controllers	• Cisco Catalyst 9800 Series Wireless Controllers • Cisco 3500, 5520, and 8540 Series Wireless Controllers and Cisco Virtual Wireless Controller
Dimensions (W x L x H)	8.5 x 8.05x 2.0" (21.6 x 21.6 x 5.1 cm)
System memory	• 2048 MB DRAM • 1024 MB flash
Frequency band and 20-MHz operatingchannels	**B (B regulatory domain):** • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels • 5.745 to 5.865 GHz; 7 channels

Product Details

Cisco AP 9120 Series provides these features:

- Wi-Fi 6 (802.11ax)
- Cisco RF ASIC
- Uplink/downlink OFDMA
- MU-MIMO technology
- BSS coloring
- Target wake time
- Intelligent Capture
- Flexible Radio Assignment
- Dual 5-GHz radio support
- Smart antenna connector
- Cisco Mobility Express
- Multigigabit Ethernet support
- Bluetooth 5
- Container support for applications
- Apple Features

C9120AXE-B Technical Information:

- 4×4 Downlink Mu-mimo With Four Spatial Streams
- Uplink/downlink Ofdma
- Twt
- Bss Coloring
- Mrc
- 802.11ax Beamforming
- 20-, 40-, 80-, And 160-mhz Channels
- Phy Data Rates Up To 5.38 Gbps (160 Mhz With 5 Ghz And 20 Mhz With 2.4 Ghz)
- Packet Aggregation: A-mpdu (transmit And Receive), A-msdu (transmit And Receive)
- 802.11 Dfs
- Csd Support

Interfaces:

- 1x 100, 1000, 2500 Multigigabit Ethernet (rj-45) – Ieee 802.3bz
- Auto-mdix Support
- Management Console Port (rj-45)
- Usb 2.0 @ 4.5w**Dimensions And Weight:**
- Access Point (without Mounting Brackets): C9120axi: 8.5 X 8.5 X 1.7” (21.6 X 21.6 X 4.3 Cm), C9120axe And C9120axp: 8.5 X 8.05 X 2.0” (21.6 X 21.6 X 5.1 Cm)
- 3 Lb (1.36 Kg)**Input Power Requirements:**
- 802.3at Power Over Ethernet Plus (poe+), 802.3bt CISCO Universal Poe (CISCO Upoe+, CISCO Upoe)
- 802.3af Poe
- CISCO Power Injector

Specification

Software	• Cisco Unified Wireless Network Software Release 8.9.x or later • Cisco IOS® XE Software Release 16.11 with AP Device Pack, or later
Supported wireless LAN controllers	• Cisco Catalyst 9800 Series Wireless Controllers • Cisco 3500, 5520, and 8540 Series Wireless Controllers and Cisco Virtual Wireless Controller
802.11n version 2.0 (and related) capabilities	• 4x4 MIMO with four spatial streams • Maximal Ratio Combining (MRC) • 802.11n and 802.11a/g beamforming • 20- and 40-MHz channels • PHY data rates up to 890 Mbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 Dynamic Frequency Selection (DFS) • Cyclic Shift Diversity (CSD) support
802.11ac	• 4x4 downlink MU-MIMO with four spatial streams • MRC • 802.11ac beamforming • 20-, 40-, 80-, and 160-MHz channels • PHY data rates up to 3.47 Gbps (160 MHz with 5 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support
802.11ax	• 4x4 downlink MU-MIMO with four spatial streams • Uplink/downlink OFDMA • TWT • BSS coloring • MRC • 802.11ax beamforming • 20-, 40-, 80-, and 160-MHz channels • PHY data rates up to 5.38 Gbps (160 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support
Integrated antenna	Flexible radio (either on 2.4GHz or on 5GHz) • 2.4 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth • 5 GHz, peak gain 5 dBi, internal antenna, omnidirectional in azimuth Dedicated 5GHz radio • 5 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth
External antenna (sold separately)	• Cisco Catalyst 9120E Access Points are certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz) • Cisco Catalyst 9120P Access Points) are certified for use with antenna gains up to 13 dBi (2.4 GHz and 5 GHz) with the AIR-ANT2513-P4M-N= antenna • Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios • Supports Self-Identifiable Antennas (SIA) on one RP-TNC port
Smart Antenna Connector	• Available on the 9120E and on the 9120P only • Compact multi RF connector with DART interface • Requires the AIR-CAB002-DART-R= 2 ft smart antenna connector when used with antennas with RP-TNC connector • Required when running the flexible radio as either a second 5-GHz serving radio or a Wireless Security Monitoring radio
Interfaces	• 1x 100, 1000, 2500 Multigigabit Ethernet (RJ-45)-IEEE 802.3bz • Management console port (RJ-45) • USB 2.0 @ 3.75W (enabled via future software)

Indicators	• Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors

C9120AXE-B Specification

Description	Cisco Catalyst 9120AXE Series, B Domain
Dimensions (W x L x H)	• Access point (without mounting brackets): C9120I: 8.5 x 8.5 x 1.7" (21.6 x 21.6 x 4.3 cm), C9120E and C9120P: 8.5 x 8.05x 2.0" (21.6 x 21.6 x 5.1 cm)
Input power requirements	• 802.3at Power over Ethernet Plus (PoE+), 802.3bt Cisco Universal PoE (Cisco UPOE+, Cisco UPOE®) • Cisco power injector, AIR-PWRINJ6= • 802.3af PoE • Cisco power injector, AIR-PWRINJ5= (Note: This injector supports only 802.3af)
Environmental	Cisco Catalyst 9120AXI • Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) • Nonoperating (storage) altitude test: 25˚C, 15,000 ft. • Operating temperature: 32° to 122°F (0° to 50°C) • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40˚C, 9843 ft. Note: When the ambient operating temperature exceeds 40°C, the access point will shift from 4x4 to 2x2 on both the 2.4-GHz and 5-GHz radios, uplink Ethernet will downgrade to 1 Gigabit Ethernet; however, the USB interface will remain enabled Cisco Catalyst 9120AXE and 9120AXP • Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) • Nonoperating (storage) altitude test: 25˚C, 15,000 ft. • Operating temperature: -4° to 122°F (-20° to 50°C) • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40˚C, 9843 ft.
System memory	• 2048 MB DRAM • 1024 MB flash
Warranty	Limited lifetime hardware warranty
Available transmit power settings	**2.4 GHz** • 23 dBm (200 mW) • 20 dBm (100 mW) • 17 dBm (50 mW) • 14 dBm (25 mW) • 11 dBm (12.5 mW) • 8 dBm (6.25 mW) • 5 dBm (3.13 mW) • 2 dBm (1.56 mW) • -1dBm (0.79mW) • -4dBm(0.39mW) **5 GHz** • 26 dBm (400 mW) • 23 dBm (200 mW) • 20 dBm (100 mW) • 17 dBm (50 mW) • 14 dBm (25 mW) • 11 dBm (12.5 mW) • 8 dBm (6.25 mW) • 5 dBm (3.13 mW) • 2 dBm (1.56 mW) • -1dBm (0.79mW)
Frequency band and 20-MHz operating channels	**B (B regulatory domain):** • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels • 5.745 to 5.865 GHz; 7 channels